## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/16590

A. CLASSIFICATION OF SUBJECT MATTER		C170304/16390		
IPC(7) : H01J 37/285; G01N 25/00				
US CL : 250/306, 307, 309, 311, 324/451				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)  U.S.: 250/306, 307, 309, 311, 234/451				
U.S.: 250/306, 307, 309, 311; 324/451				
Documentation searched other than minimum documentation to t	he extent that such documen	to and in the 1.1		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category * Citation of document, with indication, where	2222222222		·	
- The state of the	appropriate, of the relevant	passages	Relevant to claim No.	
US 4,206,408 A (DRECHSLER) 03 June 1980 (03.06.1980), Fig. 3.			1-30	
A US 6,580,069 B1 (CEREZO) 17 June 2003 (17.06.2003), Fig. 1 and columns 3-4.		3-4.	1-30	
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Further documents are listed in the continuation of Box C.				
Special categories of cited documents:	See patent famil			
	"T" later document pub	lished after the internat	ional filing date or priority	
"A" document defining the general state of the art which is not considered to be of particular relevance	principle or theory	underlying the invention	n but cited to understand the	
"E" earlier application or patent published on or after the international filing date	considered novel of	cannot be considered t	ned invention cannot be o involve an inventive step	
document which may throw doubts on priority claim(s) or which is cited to	when the document	is taken alone		
establish the publication date of another citation or other special reason (as specified)	"Y" document of particu	lar relevance; the clain	ned invention cannot be	
O" document referring to an oral disclosure, use, exhibition or other means	considered to involve	e an inventive step who	en the document is uments, such combination	
P document published prior to the international filing date but later than the	being obvious to a p	erson skilled in the art		
priority date claimed	"&" document member o	of the same patent famil	У	
Date of the actual completion of the international search	Date of mailing of the inte	rnational search re	eport	
0 December 2004 (20.12.2004)	2.8 MAR 2005			
Name and mailing address of the ISA/US	Authorized officer	7		
Mail Stop PCT, Attn: ISA/US	1 10:00			
Commissioner for Patents P.O. Box 1450	John R. Lee	+· Ultu	HHCV 1	
Alexandria, Virginia 22313-1450	Telephone No. 703-308-0	936	178	
acsimile No. (703) 305-3230			,	

Form PCT/ISA/210 (second sheet) (January 2004)

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International application No.

PCT/US04/16590

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
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is			
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